

K2W Information Systems Technology AAS Template (LF298.InfoSystemsTech.Template.K2W)

- Program Information
- K2W Support Team
- IT Professions
- Web Page Design
- Database Fundamentals
- Network Concepts
- Principles of IS
- Microcomputer OS
- Software Design
- Systems Analysis
- Weekly Interaction
- Competency Progress
- K2W Website
- LFCC Help & Support
- Library Help

Course Management

- Control Panel**
- My Files
- Course Tools
- Evaluation
- Grade Center
- Users and Groups
- Customization
- Packages and Utilities
- Help

Quick Unenroll

Systems Analysis

- Build Content Assessments Tools Partner Content Discover Content



Introduction and Procedures

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 This topic area will demonstrate competency in software principles and practices of software develop through the areas of critical thinking, problem solving, essential programming logic, structured design, object-oriented design, and modern software design tools.

A student must achieve a minimum of 80% of the total points allowed for this competency. This equates to 624 points out of 780 points.

Completion of the following tasks are required:

1. **Systems Analysis & Design (SAD) Project Design Assessment Task** (Student project to demonstrate ability for designing and developing a customer need.)
2. **Systems Analysis & Design Competency Assessment #1** (An assessment using multiple choice, and short answer and essay type questions; student gets two attempts to achieve the required score.)
3. **Systems Analysis & Design Competency Assessment #2** (An assessment similar in format to assessment #1 cover other materials; Student gets two attempts to achieve required score)
4. **Systems Analysis & Design Competency Assessment #3** (An assessment similar in format to assessment #1 to cover materials. Student gets two attempts to achieve required score.)
5. **Systems Analysis & Design Competency Assessment #4** (An assessment similar in format to assessment #1 to cover materials. Student gets two attempts to achieve required score.)

Furthermore, in order to assist the student, Digital resources are provided as learning tools to enhance the student's knowledge as preparation for accomplishing any of these tasks.



Required Competencies to Achieve

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- Carry out trouble-shooting strategies for resolving an identified end-user IT problem.
- Identify a variety of assistive or adaptive technologies and universal design considerations.
- Identify basic components of an end-user IT system.
- Implement a hardware and software configuration responsive to an identified scenario.
- Summarize life-cycle strategies for replacement, reuse, recycling IT technology and resources.
- Summarize strategies to support or train users with their IT resources.
- Describe the data management activities associated with the data lifecycle.
- Diagram a database design based on an identified scenario.
- Identify database administration tasks.
- Use data analytics to support decision making for a given scenario.
- Diagram the components of an integrated IT system.
- Differentiate among various techniques for making a computer network secure.
- Demonstrate best practices for designing end-user computing interfaces.
- Diagram the phases of the Secure Software Development Lifecycle.
- Discuss software development methodologies.
- Use a programming or a scripting language to share data across an integrated IT system.
- Use a programming or a scripting language to solve a problem.
- Identify a variety of enterprise-level digital storage technologies.
- Modify a system to improve data confidentiality or regulatory compliance.
- Summarize the implications of various cloud computing models.
- Use communication, negotiation, and collaboration skills as a member of a diverse team.
- Describe the attitudes, knowledge and abilities associated with quality customer service.
- Produce technical documentation responsive to an identified computing scenario.
- Use documentation or a knowledge base to resolve a technical challenge in an identified computing scenario.
- Demonstrate professional behavior in response to an ethically-challenging scenario in computing
- Describe IT procurement processes for goods and services.
- Summarize the role of IT in supporting the mission and goals of an organization.



Digital Learning Resources

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These learning resources will help you learn system Analysis and Design competencies.

This folder contains digital learning resources that cover the competency areas.

- It is recommended that the learner review this information prior to taking the two assessments.
- If a score of at least 80% is not earned on both assessments and the addressing assignment, the learner should review this material before attempting the assessment again



Systems Analysis and Design (SAD) Project Design Assessment Task

Folder contains various deliverables in the formulation of a project.



SAD Competency Assessment #1

Multiple Choice and Essay type questions. Max points =75 (80% = 60 points)



SAD Competency Assessment #2

Multiple Choice and Essays Max points = 100 (80% = 80 points)



SAD Competency Assessment #3

Multiple Choice and Essays Max points = 80 (80% = 64 points)



SAD Competency Assessment #4

Multiple Choice and Essay Max points = 200 (80% = 160 points)

Lord Fairfax Community College (LFCC)

173 Skirmisher Lane

Middletown, VA 22645-1745

LFCC.edu



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